

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	"20030129471"	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/21 11:48
L2	1	1 and fiber\$2 and thick\$4 and diamet\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/21 11:49
L3	1	10/540941	US-PGPUB	OR	OFF	2008/05/21 12:07
L4	1	3 and nonwoven and thermoplastic and conductive	US-PGPUB	OR	OFF	2008/05/21 12:07
L5	1	3 and nonwoven and thermoplastic and conductive and fabric\$2	US-PGPUB	OR	OFF	2008/05/21 12:08
L6	1	3 and fabric\$2	US-PGPUB	OR	OFF	2008/05/21 12:13
L7	1	3 and powder\$2	US-PGPUB	OR	OFF	2008/05/21 12:15
L8	1	1 and powder\$2 and (graphit\$2 black)	US-PGPUB	OR	OFF	2008/05/21 12:16
L9	1	"20030219646"	US-PGPUB	OR	OFF	2008/05/21 12:26
L10	1	9 and (powder\$2 graphit\$2 black \$2)	US-PGPUB	OR	OFF	2008/05/21 12:27
L11	37	((fuel adj cell\$2) and ((non near woven) cloth) and ((thermoplastic near resin near fiber\$2) (thermoplastic near fiber\$2) (resin near fiber\$2)) and (separator\$2 endplate\$2 biplate\$2 plate\$2 collector\$2 interconnect\$3 Bipolar support\$2) and (fiber\$2 near\$3 diameter\$2) and (graphit\$3 black \$2 powder\$2 particle\$2)	US-PGPUB; USPAT	OR	OFF	2008/05/21 12:30
L12	673	((fuel adj cell\$2) and ((non near woven) cloth) and ((resin thermoplastic polymer\$4) near\$5 fiber\$5) and (separator\$2 endplate \$2 biplate\$2 plate\$2 collector\$2 interconnect\$3 Bipolar support\$2) and (graphit\$3 black\$2 powder\$2 particle\$2)	US-PGPUB; USPAT	OR	OFF	2008/05/21 12:40
L13	53	((fuel adj cell\$2) and ((non near woven) cloth) and ((resin thermoplastic polymer\$4) near\$5 fiber\$5) and (separator\$2 endplate \$2 biplate\$2 plate\$2 collector\$2 interconnect\$3 Bipolar support\$2) and (graphit\$3 black\$2 powder\$2 particle\$2) and (separator\$2 endplate\$2 biplate\$2 plate\$2 collector\$2 interconnect\$3 Bipolar support\$2).ti.	US-PGPUB; USPAT	OR	OFF	2008/05/21 12:41

L14	713	((fuel adj cell\$2) and ((non near woven) cloth) and ((resin thermoplastic polymer\$4) near5 fiber\$5) and (separator\$2 endplate\$2 biplate\$2 plate\$2 collector\$2 interconnect\$3 Bipolar support\$2))	US-PGPUB; USPAT	OR	OFF	2008/05/21 12:50
L15	443	((fuel adj cell\$2) and ((non near woven) cloth) and ((resin thermoplastic polymer\$4) near5 fiber\$5) and (separator\$2 endplate\$2 biplate\$2 plate\$2 collector\$2 interconnect\$3 Bipolar support\$2) and ((polytetrafluoroethylene (polyvinylidene near fluoride) ptfe pvdf (thermoplastic near elastomer\$2) polyester\$2 (polyester near polyether) polyethylene polypropylene cycloolefin polystyrene (syndiotactic near polystyrene) (polyvinyl near chloride) ABS polyamide (polyacetal near polycarbonate) (polyphenylene near ether) (polyphenylene near ether) (polyethylene near terephthalate) PET (polytrimethylene near terephthalate) (polybutylene near terephthalate) (polycyclohexene near terephthalate) (polythioether near sulfone) and polyetheretherketone PEK (polyether near nitrile) polyarylate polysulfone polyethersulfone polyetherimide polyamide-imide polyimide (polylactac near acid\$2)) same fiber\$2))	US-PGPUB; USPAT	OR	OFF	2008/05/21 12:59
L16	1	1 and powder\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/21 13:18
L17	1	1 and powder\$2 and (conductive near material\$2)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/21 13:31
L18	110	((fuel adj cell\$2) and ((non near woven) paper) and ((resin thermoplastic polymer\$4) near5 fiber\$5) and (separator\$2 endplate\$2 biplate\$2 plate\$2 collector\$2 interconnect\$3 Bipolar support\$2) and (graphit\$3 black\$2 powder\$2 particle\$2) and (separator\$2 endplate\$2 biplate\$2 plate\$2 collector\$2 interconnect\$3 Bipolar support\$2).ti.	US-PGPUB; USPAT	OR	OFF	2008/05/21 13:54
L19	1	"20030035992"	US-PGPUB	OR	OFF	2008/05/21 14:05
L20	0	19 and bipolar	US-PGPUB	OR	OFF	2008/05/21 14:05
L21	1	19 and ((non near woven) paper)	US-PGPUB	OR	OFF	2008/05/21 14:06

L22	47	((fuel adj cell\$2) and ((non near woven) paper) and ((resin thermoplastic polymer\$4) near5 fiber\$5) and (Bipolar near2 (plate \$2 separator\$2)) and (graphit\$3 black\$2 powder\$2 particle\$2) and (separator\$2 endplate\$2 biplate\$2 plate\$2 collector\$2 interconnect\$3 Bipolar support\$2).ti.	US-PGPUB; USPAT	OR	OFF	2008/05/21 14:18
L23	47	((fuel adj cell\$2) and ((non near woven) paper) and ((resin thermoplastic polymer\$4) near5 fiber\$5) and (Bipolar near2 (plate \$2 separator\$2)) and fiber\$2 and (graphit\$3 black\$2 powder\$2 particle\$2) and (separator\$2 endplate\$2 biplate\$2 plate\$2 collector\$2 interconnect\$3 Bipolar support\$2).ti.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/21 14:51
L24	1	"5,134,016".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/21 14:59
L25	0	24 and fiber and polym\$3 and particle\$3 and graphit\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/21 14:59
L26	1	24 and (fiber\$2 polym\$3 particle\$3 graphit\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/21 15:00
L27	0	24 and (fiber\$2 polym\$3 particle\$3 graphit\$3) and bipolar	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/21 15:00
L28	1	3 and fabric	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/21 15:07
L29	76	((fuel adj cell\$2) and ((resin thermoplastic polymer\$4) near5 fiber\$5) and (Bipolar near2 (plate \$2 separator\$2)) and (graphit\$3 black\$2 powder\$2 particle\$2) and (separator\$2 endplate\$2 biplate\$2 plate\$2 collector\$2 interconnect\$3 Bipolar support\$2).ti.	US-PGPUB; USPAT	OR	OFF	2008/05/21 15:12
L30	8	huang.in. and (bipolar same plate \$2).ti.	US-PGPUB; USPAT	OR	OFF	2008/05/21 16:24
L31	30	((fuel adj cell\$2) and (bipolar near (plate\$2 separator\$2)) and graphit \$3 and ((thermoplastic polymer\$2) near fiber\$2) and mold\$4 and (size \$2 diameter\$2)	US-PGPUB; USPAT	OR	OFF	2008/05/21 16:41
L32	16	((fuel adj cell\$2) and (bipolar near (plate\$2 separator\$2)) and graphit \$3 and ((thermoplastic polymer\$2) near fiber\$2) and mold\$4 and (size \$2 diameter\$2) and (fiber\$2 near3 diameter\$2)	US-PGPUB; USPAT	OR	OFF	2008/05/21 16:51
L33	20	((fuel adj cell\$2) and (bipolar near (plate\$2 separator\$2)) and graphit \$3 and ((thermoplastic polymer\$2) near fiber\$2) and (fiber\$2 near3 diameter\$2)	US-PGPUB; USPAT	OR	OFF	2008/05/21 16:55

L34	21	((fuel adj cell\$2) and (bipolar near (plate\$2 separator\$2)) and ((thermoplastic polymer\$2) near fiber\$2) and (fiber\$2 near3 diameter\$2)	US-PGPUB; USPAT	OR	OFF	2008/05/21 16:58
L35	21	((fuel adj cell\$2) and (bipolar near (plate\$2 separator\$2)) and ((thermoplastic polymer\$2) near fiber\$2) and (fiber\$2 near3 diameter\$2)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/21 16:58
L36	223	((fuel adj cell\$2) and (separator\$2 endplate\$2 biplate\$2 plate\$2 collector\$2 interconnect\$3 Bipolar support\$2) and ((thermoplastic polymer\$2) near fiber\$2) and (fiber\$2 near3 diameter\$2)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/21 17:01
S1	1	10/540941	US-PGPUB	OR	OFF	2007/12/12 14:15
S2	3034	429/34	US-PGPUB; USPAT; USOCR	OR	OFF	2007/11/30 14:04
S3	193	S2 and (separator\$2 endplate\$2 biplate\$2 plate\$2 collector\$2 interconnect\$3 Bipolar support\$2) and fiber\$2 and graphit\$3 and (fabric cloth) and (heat\$3 fired firing fire)	US-PGPUB; USPAT; USOCR	OR	OFF	2007/11/30 13:53
S4	21	S2 and (separator\$2 endplate\$2 biplate\$2 plate\$2 collector\$2 interconnect\$3 Bipolar support\$2) and fiber\$2 and graphit\$3 and (fabric cloth) and (heat\$3 fired firing fire) and powder\$2 and nonwoven	US-PGPUB; USPAT; USOCR	OR	OFF	2007/11/30 13:56
S5	18	S2 and (separator\$2 endplate\$2 biplate\$2 plate\$2 collector\$2 interconnect\$3 Bipolar support\$2) and fiber\$2 and graphit\$3 and (fabric cloth) and (heat\$3 fired firing fire) and powder\$2 and nonwoven and (thermoplastic resin)	US-PGPUB; USPAT; USOCR	OR	OFF	2007/11/30 14:02
S6	0	S2 and (separator\$2 endplate\$2 biplate\$2 plate\$2 collector\$2 interconnect\$3 Bipolar support\$2) and fiber\$2 and graphit\$3 and (fabric cloth) and (heat\$3 fired firing fire) and powder\$2 and nonwoven and (thermoplastic resin) and (thermoplastic near2 fiber\$2)	US-PGPUB; USPAT; USOCR	OR	OFF	2007/11/30 14:02

S7	0	S2 and (separator\$2 endplate\$2 biplate\$2 plate\$2 collector\$2 interconnect\$3 Bipolar support\$2) and fiber\$2 and graphit\$3 and (fabric cloth) and (heat\$3 fired firing fire) and powder\$2 and nonwoven and (thermoplastic resin) and ((polyphenylene thermoplastic) near3 fiber\$2)	US-PGPUB; USPAT; USOCR	OR	OFF	2007/11/30 14:04
S8	1728	429/38	US-PGPUB; USPAT; USOCR	OR	OFF	2007/11/30 14:05
S9	0	S8 and (separator\$2 endplate\$2 biplate\$2 plate\$2 collector\$2 interconnect\$3 Bipolar support\$2) and fiber\$2 and graphit\$3 and (fabric cloth) and (heat\$3 fired firing fire) and powder\$2 and nonwoven and (thermoplastic resin) and ((polyphenylene thermoplastic) near3 fiber\$2)	US-PGPUB; USPAT; USOCR	OR	OFF	2007/12/02 16:13
S10	1292	429/39	US-PGPUB; USPAT; USOCR	OR	OFF	2007/11/30 14:06
S11	0	S10 and (separator\$2 endplate\$2 biplate\$2 plate\$2 collector\$2 interconnect\$3 Bipolar support\$2) and fiber\$2 and graphit\$3 and (fabric cloth) and (heat\$3 fired firing fire) and powder\$2 and nonwoven and (thermoplastic resin) and ((polyphenylene thermoplastic) near3 fiber\$2)	US-PGPUB; USPAT; USOCR	OR	OFF	2007/12/02 16:13
S12	316	429/45	US-PGPUB; USPAT; USOCR	OR	OFF	2007/11/30 14:06
S13	0	S12 and (separator\$2 endplate\$2 biplate\$2 plate\$2 collector\$2 interconnect\$3 Bipolar support\$2) and fiber\$2 and graphit\$3 and (fabric cloth) and (heat\$3 fired firing fire) and powder\$2 and nonwoven and (thermoplastic resin) and ((polyphenylene thermoplastic) near3 fiber\$2)	US-PGPUB; USPAT; USOCR	OR	OFF	2007/11/30 14:06
S14	9	(fuel adj cell\$2) and (separator\$2 endplate\$2 biplate\$2 plate\$2 collector\$2 interconnect\$3 Bipolar support\$2) and fiber\$2 and graphit\$3 and (fabric cloth) and (heat\$3 fired firing fire) and powder\$2 and nonwoven and (thermoplastic resin) and ((polyphenylene thermoplastic) near3 fiber\$2)	US-PGPUB; USPAT; USOCR	OR	OFF	2007/11/30 14:14

S15	40	(fuel adj cell\$2) and (separator\$2 endplate\$2 biplate\$2 plate\$2 collector\$2 interconnect\$3 Bipolar support\$2) and fiber\$2 and graphit\$3 and (fabric cloth) and (heat\$3 fired firing fire) and (thermoplastic resin) and ((polyphenylene thermoplastic) near3 fiber\$2)	US-PGPUB; USPAT; USOCR	OR	OFF	2007/11/30 14:14
S16	29	(fuel adj cell\$2) and (separator\$2 endplate\$2 biplate\$2 plate\$2 collector\$2 interconnect\$3 Bipolar support\$2) and fiber\$2 and graphite and (fabric cloth) and (heat\$3 fired firing fire) and (thermoplastic resin) and ((polyphenylene thermoplastic) near3 fiber\$2) and (particle\$2 powder\$2)	US-PGPUB; USPAT; USOCR	OR	OFF	2007/11/30 14:20
S17	2295	H01M002/00	EPO; JPO; DERWENT	OR	OFF	2007/11/30 14:23
S18	1931	(fuel adj cell\$2) and (separator\$2 endplate\$2 biplate\$2 plate\$2 collector\$2 interconnect\$3 Bipolar support\$2) and fiber\$2 and graphit\$4 and (thermoplastic resin)	US-PGPUB; USPAT; USOCR	OR	OFF	2007/11/30 14:22
S19	6	S17 and (fuel adj cell\$2) and (separator\$2 endplate\$2 biplate\$2 plate\$2 collector\$2 interconnect\$3 Bipolar support\$2) and fiber\$2 and graphit\$4 and (thermoplastic resin)	EPO; JPO; DERWENT	OR	OFF	2007/11/30 14:24
S20	13791	H01M002/02	EPO; JPO; DERWENT	OR	OFF	2007/11/30 14:24
S21	2	S20 and (fuel adj cell\$2) and (separator\$2 endplate\$2 biplate\$2 plate\$2 collector\$2 interconnect\$3 Bipolar support\$2) and fiber\$2 and graphit\$4 and (thermoplastic resin)	EPO; JPO; DERWENT	OR	OFF	2007/11/30 14:24
S22	2710	H01M002/14	EPO; JPO; DERWENT	OR	OFF	2007/11/30 14:25
S23	2	S22 and (fuel adj cell\$2) and (separator\$2 endplate\$2 biplate\$2 plate\$2 collector\$2 interconnect\$3 Bipolar support\$2) and fiber\$2 and graphit\$4 and (thermoplastic resin)	EPO; JPO; DERWENT	OR	OFF	2007/12/04 13:53
S24	1163	H01M004/00	EPO; JPO; DERWENT	OR	OFF	2007/11/30 14:25
S25	0	S24 and (fuel adj cell\$2) and (separator\$2 endplate\$2 biplate\$2 plate\$2 collector\$2 interconnect\$3 Bipolar support\$2) and fiber\$2 and graphit\$4 and (thermoplastic resin)	EPO; JPO; DERWENT	OR	OFF	2007/11/30 14:25
S26	29	((jiane same jiang) (tetsuya same harada) (hitoshi same izutsu)).in.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/11/30 14:26
S27	7	S26 and thermoplastic and fiber\$2 and (powder\$2 graphit\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2007/11/30 14:27

S28	1	"20030219646"	US-PGPUB; USPAT; USOCR	OR	OFF	2007/12/04 14:39
S29	0	S28 and (separator\$2 endplate\$2 biplate\$2 plate\$2 collector\$2 interconnect\$3 Bipolar support\$2) and fiber\$2 and graphit\$3 and (fabric cloth) and (heat\$3 fired firing fire) and powder\$2 and nonwoven and (thermoplastic resin) and ((polyphenylene thermoplastic) near3 fiber\$2)	US-PGPUB; USPAT; USOCR	OR	OFF	2007/12/02 16:13
S30	0	S28 and (separator\$2 endplate\$2 biplate\$2 plate\$2 collector\$2 interconnect\$3 Bipolar support\$2) and fiber\$2 and graphit\$3 and (fabric cloth) and (heat\$3 fired firing fire) and powder\$2 and nonwoven and (thermoplastic resin) and ((polyphenylene thermoplastic) near3 fiber\$2)	US-PGPUB; USPAT; USOCR	OR	OFF	2007/12/02 16:14
S31	1	S28 and (separator\$2 endplate\$2 biplate\$2 plate\$2 collector\$2 interconnect\$3 Bipolar support\$2) and fiber\$2 and graphit\$3 and (fabric cloth) and (heat\$3 fired firing fire) and powder\$2 and (thermoplastic resin)	US-PGPUB; USPAT; USOCR	OR	OFF	2007/12/02 16:15
S32	1	S28 and (heat\$3 same fiber\$2) and powder\$2 and (thermoplastic resin) and (diameter\$2 size\$2)	US-PGPUB; USPAT; USOCR	OR	OFF	2007/12/02 16:16
S33	1	"20030219646"	US-PGPUB; USPAT; USOCR	OR	OFF	2007/12/03 15:06
S34	1	S33 and (diameter size\$2)	US-PGPUB; USPAT; USOCR	OR	OFF	2007/12/03 15:07
S35	1	S33 and (diameter\$2 size\$2)	US-PGPUB; USPAT; USOCR	OR	OFF	2007/12/03 15:07
S36	1	S33 and (diameter\$2 size\$2 length \$2 thick\$4)	US-PGPUB; USPAT; USOCR	OR	OFF	2007/12/03 15:07
S37	278	(fuel adj cell\$2) and (separator\$2 endplate\$2 biplate\$2 plate\$2 collector\$2 interconnect\$3 Bipolar support\$2) and fiber\$2 and graphit \$4 and (thermoplastic resin) and (fiber near3 diameter\$2)	US-PGPUB; USPAT; USOCR	OR	OFF	2007/12/04 13:59
S38	278	(fuel adj cell\$2) and (separator\$2 endplate\$2 biplate\$2 plate\$2 collector\$2 interconnect\$3 Bipolar support\$2) and fiber\$2 and graphit \$4 and (thermoplastic resin) and (fiber near3 diameter\$2) and diameter\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2007/12/12 15:05
S39	1	"20020086198"	US-PGPUB; USPAT; USOCR	OR	OFF	2007/12/04 14:11
S40	1	S39 and separator\$2 and diameter \$2 and fiber\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2007/12/04 14:12

S41	1	"20030219646"	US-PGPUB; USPAT; USOCR	OR	OFF	2007/12/04 14:39
S42	1	S41 and powder\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2007/12/04 14:39
S43	1	"20030219646"	US-PGPUB; USPAT; USOCR	OR	OFF	2007/12/12 11:40
S44	1	S43 and powder\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2007/12/12 13:39
S45	1	"20020086198"	US-PGPUB; USPAT; USOCR	OR	OFF	2007/12/12 13:39
S46	0	S43 and powder\$2 and fiber\$2 and nonwoven	US-PGPUB; USPAT; USOCR	OR	OFF	2007/12/12 13:39
S47	363	(fuel adj cell\$2) and (separator\$2 endplate\$2 biplate\$2 plate\$2 collector\$2 interconnect\$3 Bipolar support\$2) and fiber\$2 and graphit \$4 and (thermoplastic resin) and diameter\$2 and (unwoven nonwoven non\$3woven (non adj2 woven))	US-PGPUB; USPAT; USOCR	OR	OFF	2007/12/12 13:42
S48	352	(fuel adj cell\$2) and (separator\$2 endplate\$2 biplate\$2 plate\$2 collector\$2 interconnect\$3 Bipolar support\$2) and fiber\$2 and graphit \$4 and (thermoplastic resin) and diameter\$2 and (unwoven nonwoven non\$3woven (non adj2 woven)) and (particle\$2 powder\$2)	US-PGPUB; USPAT; USOCR	OR	OFF	2007/12/12 13:42
S49	338	(fuel adj cell\$2) and (separator\$2 endplate\$2 biplate\$2 plate\$2 collector\$2 interconnect\$3 Bipolar support\$2) and fiber\$2 and graphit \$4 and (thermoplastic resin) and diameter\$2 and (unwoven nonwoven non\$3woven (non adj2 woven)) and (particle\$2 powder\$2) and heat\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2007/12/13 13:03
S50	1	10/540941	US-PGPUB	OR	OFF	2007/12/12 20:46
S51	0	S50 and PAN	US-PGPUB	OR	OFF	2007/12/12 14:15
S52	1	S50 and thermoplastic	US-PGPUB	OR	OFF	2007/12/12 14:41
S53	9	(fuel adj cell\$2) and (separator\$2 endplate\$2 biplate\$2 plate\$2 collector\$2 interconnect\$3 Bipolar support\$2) and fiber\$2 and graphit \$4 and (thermoplastic resin) and diameter\$2 and (unwoven nonwoven non\$3woven (non adj2 woven)) and (particle\$2 powder\$2) and heat\$3 and (pas (polyarylene near sulfide))	US-PGPUB; USPAT; USOCR	OR	OFF	2007/12/12 14:22
S54	1	"20030064279"	US-PGPUB	OR	OFF	2007/12/12 14:41



S55	0	S54 and nonwoven	US-PGPUB	OR	OFF	2007/12/12 14:42
S56	0	S54 and (unwoven nonwoven non \$3woven (non adj2 woven)) and (fiber\$2 fabric\$2) and PAN and diameter\$2 and powder\$2 and graphite and heat\$3	US-PGPUB	OR	OFF	2007/12/12 14:43
S57	1	S54 and (unwoven nonwoven non \$3woven (non adj2 woven)) and (fiber\$2 fabric\$2) and PAN	US-PGPUB	OR	OFF	2007/12/12 14:43
S58	0	S54 and (unwoven nonwoven non \$3woven (non adj2 woven)) and (fiber\$2 fabric\$2) and PAN and graphit\$3	US-PGPUB	OR	OFF	2007/12/12 14:43
S59	1	S54 and (unwoven nonwoven non \$3woven (non adj2 woven)) and (fiber\$2 fabric\$2) and PAN and carbon\$4 and powder\$3	US-PGPUB	OR	OFF	2007/12/12 14:44
S60	1	S54 and (unwoven nonwoven non \$3woven (non adj2 woven)) and (fiber\$2 fabric\$2) and PAN and carbon\$4 and powder\$3 and heat \$3	US-PGPUB	OR	OFF	2007/12/12 14:51
S61	1	"20030180622"	US-PGPUB	OR	OFF	2007/12/12 14:51
S62	0	S61 and (unwoven nonwoven non \$3woven (non adj2 woven)) and (fiber\$2 fabric\$2) and PAN and carbon\$4 and powder\$3 and heat \$3	US-PGPUB	OR	OFF	2007/12/12 14:51
S63	1	S61 and (unwoven nonwoven non \$3woven (non adj2 woven)) and (fiber\$2 fabric\$2) and carbon\$4 and powder\$3 and heat\$3	US-PGPUB	OR	OFF	2007/12/12 14:51
S64	86	(fuel adj cell\$2) and (separator\$2 endplate\$2 diplate\$2 plate\$2 collector\$2 interconnect\$3 Bipolar support\$2) and fiber\$2 and graphit \$4 and (thermoplastic same resin) and (fiber near3 diameter\$2) and diameter\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2007/12/12 14:59
S65	143	(fuel adj cell\$2) and (separator\$2 endplate\$2 diplate\$2 plate\$2 collector\$2 interconnect\$3 Bipolar support\$2) and fiber\$2 and graphit \$4 and thermoplastic and (fiber near3 diameter\$2) and diameter\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2007/12/12 14:59
S66	189	(fuel adj cell\$2) and (separator\$2 endplate\$2 diplate\$2 plate\$2 collector\$2 interconnect\$3 Bipolar support\$2) and fiber\$2 and (powder \$3 graphit\$4) and thermoplastic and (fiber near3 diameter\$2) and diameter\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2007/12/12 15:04

S67	74	(fuel adj cell\$2) and (separator\$2 endplate\$2 biplate\$2 plate\$2 collector\$2 interconnect\$3 Bipolar support\$2) and fiber\$2 and graphit \$4 and (thermoplastic resin) and (fiber near\$3 diameter\$2) and diameter\$2 and (unwoven nonwoven non\$3woven (non adj2 woven))	US-PGPUB; USPAT; USOCR	OR	OFF	2007/12/12 15:14
S68	2	"20030194557"	US-PGPUB; USPAT; USOCR	OR	OFF	2007/12/12 20:42
S69	1	S44 and heat\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2007/12/12 15:13
S70	1	S44 and (heat\$4 temperat\$4)	US-PGPUB; USPAT; USOCR	OR	OFF	2007/12/12 15:13
S71	2	S68 and heat\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2007/12/12 15:13
S72	69	(fuel adj cell\$2) and (separator\$2 endplate\$2 biplate\$2 plate\$2 collector\$2 interconnect\$3 Bipolar support\$2) and fiber\$2 and graphit \$4 and (thermoplastic resin) and (fiber near\$3 diameter\$2) and diameter\$2 and (unwoven nonwoven non\$3woven (non adj2 woven)) and heat\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2007/12/13 12:55
S73	1	"20030194557"	US-PGPUB	OR	OFF	2007/12/12 20:42
S74	1	S73 and bipolar and plate\$2 and substrat\$3 and separat\$3	US-PGPUB	OR	OFF	2007/12/12 20:43
S75	1	S73 and bipolar and plate\$2 and substrat\$3 and separat\$3 and bpp	US-PGPUB	OR	OFF	2007/12/12 20:52
S76	1	10/540941	US-PGPUB	OR	OFF	2007/12/12 20:46
S77	1	S76 and separat\$3	US-PGPUB	OR	OFF	2007/12/12 20:47
S78	1	S76 and separat\$3 and bipolar	US-PGPUB	OR	OFF	2007/12/12 20:50
S79	1	S76 and separat\$3 and bipolar and "5" and "6" and "1"	US-PGPUB	OR	OFF	2007/12/12 20:50
S80	1	S73 and "5"	US-PGPUB	OR	OFF	2007/12/12 20:52
S81	13	(fuel adj cell\$2) and (Bipolar near\$3 plate\$2) and fiber\$2 and graphit\$4 and (thermoplastic resin) and (fiber near\$3 diameter\$2) and diameter\$2 and (unwoven nonwoven non \$3woven (non adj2 woven)) and heat\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2007/12/13 12:55

S82	14	(fuel adj cell\$2) and (Bipolar near3 (separator\$2 plate\$2)) and fiber\$2 and graphit\$4 and (thermoplastic resin) and (fiber near3 diameter\$2) and diameter\$2 and (unwoven nonwoven non\$3woven (non adj2 woven)) and heat\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2007/12/12 20:59
S83	19	(fuel adj cell\$2) and (Bipolar near3 (separator\$2 plate\$2)) and fiber\$2 and graphit\$4 and (fiber near3 diameter\$2) and diameter\$2 and (unwoven nonwoven non\$3woven (non adj2 woven)) and heat\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2007/12/12 20:59
S84	1	"6248467".pn.	USPAT	OR	OFF	2007/12/13 12:54
S85	807	(fuel adj cell\$2) and (separator\$2 endplate\$2 biplate\$2 plate\$2 collector\$2 interconnect\$3 Bipolar support\$2) and fiber\$2 and diameter\$2 and (unwoven nonwoven non\$3woven (non adj2 woven)) and (conductive graphit\$3 particle\$2 powder\$2) and heat\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2007/12/13 14:01
S86	1	"20030129471"	US-PGPUB; USPAT; USOCR	OR	OFF	2007/12/13 13:23
S87	1	S86 and (unwoven nonwoven non \$3woven (non adj2 woven))	US-PGPUB; USPAT; USOCR	OR	OFF	2007/12/13 13:23
S88	378	(fuel adj cell\$2) and (conductive near3 (separator\$2 endplate\$2 biplate\$2 plate\$2 collector\$2 interconnect\$3 Bipolar support\$2)) and fiber\$2 and (unwoven nonwoven non\$3woven (non adj2 woven)) and (conductive graphit\$3 particle\$2 powder\$2) and heat\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2007/12/13 17:21
S89	314	(fuel adj cell\$2) and (conductive near2 (separator\$2 endplate\$2 biplate\$2 plate\$2 collector\$2 interconnect\$3 Bipolar support\$2)) and fiber\$2 and (unwoven nonwoven non\$3woven (non adj2 woven)) and (conductive graphit\$3 particle\$2 powder\$2) and heat\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2007/12/13 14:03
S90	100	("6180275" "5667910" "6071635" "4526843" "4826716" "5336274" "5393619" "5705259" "5707755" "5776633" "6248467" "6251308" "6365069" "6379795" "6436315" "6572997" "6933333" "7090793" "7300719" "20020001743" "20020064701" "20020148107" "20020179230" "20030027028" "20030068542" "20030148164" "20030219646" "20040062974" "20040191608" "20040254294" "20050001352" "20050042496" "20050069750" "20050167873"	US-PGPUB; USPAT; USOCR	OR	OFF	2007/12/13 17:20

		"20050202296" "20060029859" "20060147780" "20060172172" "20060247364" "20060255464" "20060267235" "20070108422" "20070117001" "20070125493" "20070128464" "20070154771" "20070164483" "20070241475" "5863672" "6066408" "5733678" "5925477" "5952118" "6194095" "4366211" "4604332" "4631239" "4755272" "4853301" "4997727" "5384208" "5776624" "5989741" "6037075" "6054228" "6080503" "6099984" "6197147" "4175165" "4265201" "4304096" "4316360" "4343690" "4344832" "4355504" "4357400" "4371433" "4468311" "4505992" "4522895" "4533455" "4548876" "4572876" "4588661" "4590135" "4590134" "4761350" "4818637" "4855193" "4978590" "5219673" "5273837" "5387476" "5545492" "5547777" "5568801" "5624769" "5683828" "5766789" "5798187" ).pn.				
S91	9	S90 and (separator\$2 endplate\$2 biplate\$2 plate\$2 collector\$2 interconnect\$3 Bipolar support\$2) and fiber\$2 and (unwoven nonwoven non\$3woven (non adj2 woven)) and heat\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2007/12/13 17:22
S92	12	S90 and (separator\$2 endplate\$2 biplate\$2 plate\$2 collector\$2 interconnect\$3 Bipolar support\$2) and fiber\$2 and (unwoven nonwoven non\$3woven (non adj2 woven woven)) and heat\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2007/12/13 17:30
S93	28	S90 and (separator\$2 endplate\$2 biplate\$2 plate\$2 collector\$2 interconnect\$3 Bipolar support\$2) and fiber\$2 and (unwoven nonwoven non\$3woven (non adj2 woven woven) paper) and heat\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2007/12/13 17:30
S94	55	((fuel adj cell\$2) and (plate\$2 same fiber\$2 same nonwoven))	US-PGPUB; USPAT; USOCR	OR	OFF	2007/12/14 14:33
S95	263	((fuel adj cell\$2) and (plate\$2 same fiber\$2 same (unwoven nonwoven non\$3woven (non adj2 woven woven)))	US-PGPUB; USPAT; USOCR	OR	OFF	2007/12/14 14:33
S96	226	((fuel adj cell\$2) and (plate\$2 same fiber\$2 same (unwoven nonwoven non\$3woven (non adj2 woven woven))) and heat\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2007/12/14 14:34
S97	1	"20030219646"	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/17 16:22
S98	1	S97 and loading	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/17 16:24

S99	1	S97 and powder\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/17 16:24
S100	1	"20030219646"	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/17 16:29
S101	1	S100 and (separator\$2 endplate\$2 biplate\$2 plate\$2 collector\$2 interconnect\$3 Bipolar support\$2) and fiber\$2 and graphit\$3 and (nonwoven non near woven) and powder\$2 and (thermoplastic near3 resin)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/17 16:29
S102	49	(fuel adj cell\$2) and (separator\$2 endplate\$2 biplate\$2 plate\$2 collector\$2 interconnect\$3 Bipolar support\$2) and fiber\$2 and graphit\$3 and (nonwoven non near woven) and powder\$2 and (thermoplastic near3 resin)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/17 16:29
S103	1	S100 and (amount\$2 near3 fiber \$2)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/17 16:42
S104	1	S100 and fiber\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/17 16:43
S105	1	"20030129471"	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/17 16:46
S106	1	S105 and amount\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/17 16:46
S107	1	S105 and powder	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/17 16:48
S108	0	S97 and weight	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/17 16:51
S109	1	S105 and weight	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/17 16:51
S110	0	S97 and (fiber\$3 near3 diameter \$2)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/17 17:16
S111	0	S97 and diameter\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/17 17:16
S112	1	S105 and diameter\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/17 17:17
S113	1	S97 and porosit\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/17 17:24
S114	1	S105 and porosit\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/17 17:25
S115	1	"20030194577"	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/17 17:27
S116	0	"200301945577"	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/17 17:30
S117	2	"20030194557"	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/17 17:30
S118	1	"20030194557"	US-PGPUB	OR	OFF	2008/05/17 17:31
S119	1	S118 and fiber\$2 and diameter\$2 and carbon\$6 and nonwoven	US-PGPUB	OR	OFF	2008/05/17 17:32

S120	1	S118 and fiber\$2 and diameter\$2 and carbon\$6 and nonwoven and powder\$3	US-PGPUB	OR	OFF	2008/05/17 17:32
S121	1	S118 and fiber\$2 and diameter\$2 and carbon\$6 and nonwoven and powder\$3 and porositi\$4	US-PGPUB	OR	OFF	2008/05/17 17:33
S122	1	S118 and fiber\$2 and diameter\$2 and carbon\$6 and nonwoven and powder\$3 and porositi\$4 and bipolar	US-PGPUB	OR	OFF	2008/05/17 17:36
S123	1	10/540941	US-PGPUB	OR	OFF	2008/05/17 17:37
S124	0	S123 and bipolar and diffus\$5	US-PGPUB	OR	OFF	2008/05/17 17:37
S125	1	S123 and bipolar	US-PGPUB	OR	OFF	2008/05/17 17:37
S126	0	S97 and polyarylene	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/17 17:47
S127	1	(separator bipolar plate\$2).ti. and (fuel adj cell\$2) and ((polyarylene near sulfide) same fiber\$2)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/17 17:53
S128	7	(fuel adj cell\$2) and ((polyarylene near sulfide) same fiber\$2)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/17 17:53
S129	3	(separator bipolar plate\$2).ti. and (fuel adj cell\$2) and (polyarylene near sulfide)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/17 18:02
S130	3	(separator bipolar plate\$2).ti. and (fuel adj cell\$2) and (polyarylene near3 sulfide\$2)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/17 18:15
S131	9	(fuel adj cell\$2) and (polyarylene near3 sulfide\$2) and ((biplar near plate\$2) separator\$2)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/17 18:16
S132	1	S97 and uniform\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/17 18:17
S133	0	S97 and distribut\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/17 18:18
S134	1	S97 and fiber\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/17 18:18
S135	1	S97 and mold\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/17 18:25
S136	0	S97 and mold\$3 and heat\$4 and soft\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/17 18:27
S137	1	S97 and mold\$3 and heat\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/17 18:27
S138	1	S123 and resistivit\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/17 18:30
S139	3	(separator\$2 bipolar plate\$2).ti. and (fuel adj cell\$2) and (polyarylene near3 sulfide\$2)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/17 19:38
S140	2	"20030180597"	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/17 19:40

S141	1	10/540941	US-PGPUB	OR	OFF	2008/05/20 17:11
S142	1	S141 and times	US-PGPUB	OR	OFF	2008/05/20 17:11
S143	1	"20030219646"	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/20 17:19
S144	0	S143 and (powder same diameter)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/20 17:19
S145	1	S143 and (carbon near fiber\$2)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/20 17:19
S146	1	S143 and size\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/20 17:20
S147	0	S143 and diameter\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/20 17:23
S148	1	S143 and fiber	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/20 17:23
S149	1	"20030129471"	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/20 17:50
S150	1	S149 and diameter\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/20 17:50
S151	1	S149 and diameter\$2	US-PGPUB	OR	OFF	2008/05/20 17:51
S152	1	S151 and thermoplastic	US-PGPUB	OR	OFF	2008/05/20 17:51
S153	21	((fuel adj cell\$2) and bipolar and ((resin near3 fiber\$2) same (size\$2 diameter\$2))	US-PGPUB; USPAT	OR	OFF	2008/05/20 17:54
S154	16	((fuel adj cell\$2) and bipolar and ((resin near3 fiber\$2) same (size\$2 diameter\$2)) and (fiber\$2 near5 (size\$2 diameter\$2))	US-PGPUB; USPAT	OR	OFF	2008/05/20 17:57
S155	50	((fuel adj cell\$2) and separator\$2 and ((resin near3 fiber\$2) same (size\$2 diameter\$2)) and (fiber\$2 near5 (size\$2 diameter\$2))	US-PGPUB; USPAT	OR	OFF	2008/05/20 18:02
S156	20	((fuel adj cell\$2) and separator\$2 and ((resin near3 fiber\$2) same (size\$2 diameter\$2)) and (fiber\$2 near5 (size\$2 diameter\$2)) and thermoplastic\$2	US-PGPUB; USPAT	OR	OFF	2008/05/20 18:05
S157	1	"20020086198"	US-PGPUB	OR	OFF	2008/05/20 18:11
S158	1	S157 and resin\$2 and fiber\$2 and thermoplastic\$2	US-PGPUB	OR	OFF	2008/05/20 18:11
S159	1	S141 and resin\$2 and fiber\$2 and thermoplastic\$2	US-PGPUB	OR	OFF	2008/05/20 18:13
S160	12	((fuel adj cell\$2) and (thermoplastic near resin near fiber\$2)	US-PGPUB; USPAT	OR	OFF	2008/05/20 18:15
S161	248	((fuel adj cell\$2) and ((thermoplastic near resin near fiber \$2) (thermoplastic near fiber\$2) (resin near fiber\$2))	US-PGPUB; USPAT	OR	OFF	2008/05/20 18:18

S162	229	((fuel adj cell\$2) and ((thermoplastic near resin near fiber \$2) (thermoplastic near fiber\$2) (resin near fiber\$2)) and (separator \$2 endplate\$2 biplate\$2 plate\$2 collector\$2 interconnect\$3 Bipolar support\$2)	US-PGPUB; USPAT	OR	OFF	2008/05/20 18:19
S163	98	((fuel adj cell\$2) and ((thermoplastic near resin near fiber \$2) (thermoplastic near fiber\$2) (resin near fiber\$2)) and (separator \$2 endplate\$2 biplate\$2 plate\$2 collector\$2 interconnect\$3 Bipolar support\$2) and (fiber\$2 near3 diameter\$2)	US-PGPUB; USPAT	OR	OFF	2008/05/20 18:19

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